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Fifty Cents

Precision SHOOTING

a magazine for shooters by shooters

PRECISION SHOOTING

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The Precision Shooting back issue file awaits your request. We have recently acquired some additional back issues which will fill a few of the lower piles.

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"The Editor's Hour"

Last month we ran pictures of the officers of IBS. I am sorry to report that the pictures of the men were reversed. To correct the situation they are reported again. John Moulthrop is in the light sweater and Charles Fountaine is wearing a dark sweater. Sorry about that. Somewhere between my desk and the press they got switched.

* * *

In August we ran a feature on the French interest in our sport. At that time we speculated that the group shown under their measuring device was 1.174. Al Angerman, our man with the facts, tells me that it should be 1.1417. I stand corrected.

* * *

As this is being written we are planning to attend the NRA Mini Convention in White Haven, PA on September 9 and 10. It promises to be another good opportunity to spread the word on benchrest shooting. The past year has offered many occasions of this nature and we look for more in the future. It all helps us grow.

* * *

The 1978 IBS International Championships are over and they were outstanding. Record crowds, excellent weather and the ever present atmosphere of a match on the Hart family's Council Cup Range.

They managed to pull the entire thing off in as good a fashion as could be humanly possible. There were few slips and everything ran like a fine watch. On the first two days they ran 48 relays and were finished about 6 o'clock in the evening. The rain held off till half way through the Heavy Varmint and 3 Gun awards ceremony. It was an excellent show and we all owe them a big thank you for working so hard for us.

* * *

The editor of this magazine has been diagnosed as having a gigantic case of foot-in-mouth disease. In September I shared some comments on the goals for shooters. I mentioned that I could not handle the 100 yard line very well. I even moaned a bit about it.

I went to the Varmint Championships primarily to cover the events and enjoy. As it turned out I fell on my head for the first two days and could not get above the 100th spot in any category. Saturday dawned and I broke out the Heavy Varmint that has been shooting so well all year. I would at least try to better my previous 100 yard aggregate. What happened?

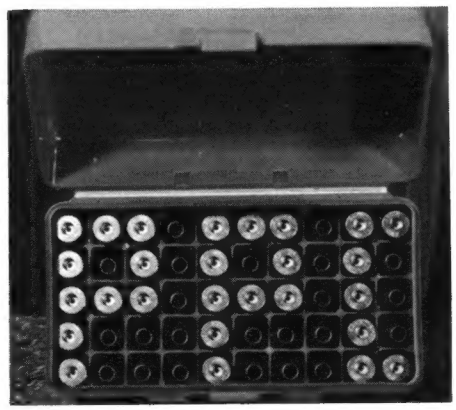
You are right!! The comments I made about not shooting well at 100 yards were destroyed by my .2018 aggregate which was good enough for the 100 yard title. So much for any sympathy that you might have worked up for me after reading my sad tale of large aggregates and frustration.

I still stand firm, however, on the statement that each of us should try to relate our goals and achievements on a more personal level and not lose sight of that in the face of ever diminishing groups and aggregates. When the game becomes less than pleasant it is no longer a game.

* * *

The report on the championships will reach you as soon as it is received. We do not have complete facts yet and do not want to give out incomplete information. There were many winners and a potential record was fired. It was a good event.

MTM PPC-BR AMMO BOX



Some time ago we ran a short article on how to combine two MTM ammo boxes to make a good fit for the PPC. We can now report that Bill Minneman at MTM has come up with a box to fit the shorter cartridges.

Listed as catalog number RS-S-50 the box will work for 22 Hornet, the PPC's, the BR's, 7.62 x 39, 351 Winchester, 224 Weatherby and 7.92 x 33 Kurz.

This box should be available from your dealer, or from one of the benchrest suppliers for sure. It is a welcome addition which is appreciated by the BR and PPC shooters.

R.R.M.

INTERNATIONAL BENCHREST SHOOTERS

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IBS Memo

IBS Targets — Charter and Life Members

100 or 200 yard benchrest targets are $20.99 per 500. 300 yard benchrest targets are $22.08 per 500. 100 yard hunter targets are $13.48 per 250. 200 yard hunter targets are $15.39 per 250.

All target orders, as usual, are figured with a 10% discount for affiliated clubs, plus handling and shipping charges.

Mail order to: Evelyn Richards, 411 N. Wilbur Ave., Sayre, Pa. 18840.

The annual membership fee is $10.00 — Life membership in IBS has been set at $125. Apply to the recording secretary for enrollment. IBS Affiliated Club Membership $10.00.

New rule books now available, with minor changes — plus IBS By-Laws at $1.00 per copy.

IBS Charter Membership Patches and regular patches are available at $2.00 each.

When ordering **Charter Membership patches,** please indicate your 1970 Card Number.

President's Message

**IBS 1979 Annual Meeting—
Official Notice**

The tenth annual meeting will be held on November 11 and 12, 1978 at the Dinkler Motel, Syracuse, NY.

The Dinkler Motel is located at 1100 James St., which is just off of both I-81 and I-690. Arrive on I-690 and take the Teall Ave. exit. Follow Teall Avenue north to James Street, make a left turn, go five blocks and the Dinkler will be on your left. (See the map accompaning this notice.)

To make reservations call 315-472-6961. Please make mention of the IBS meeting when making reservations. Thank you!

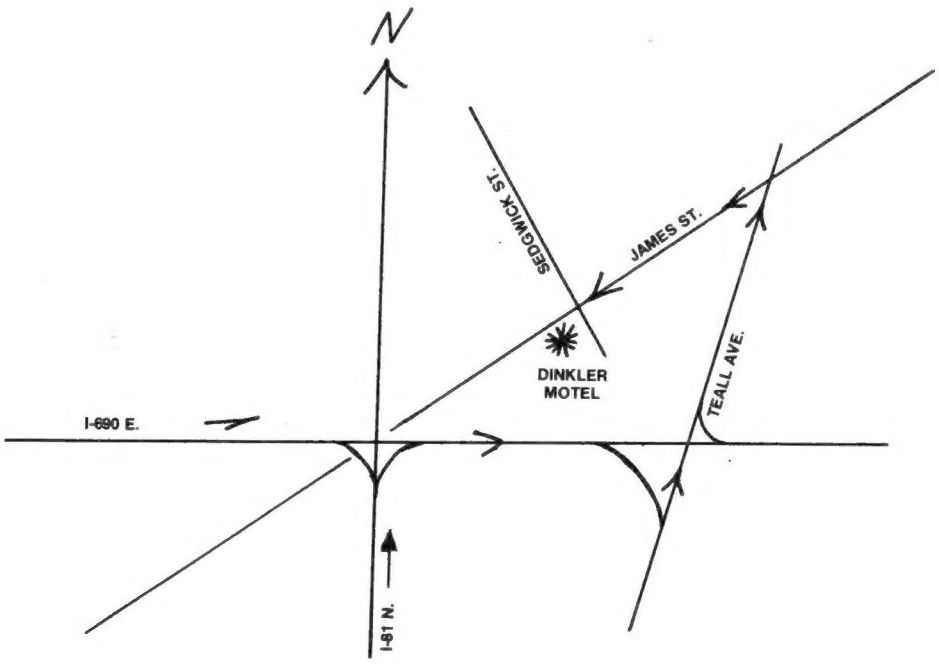
For the ladies there is regularly scheduled bus transportation to downtown Syracuse. Many shopping malls and plazas are nearby, along with museums and a Zoo. Syracuse China and the Salt Museum are points of interest.

The membership meeting will be called to order at 9:00 a.m. on Saturday with the Board of Directors meeting immediately following.

Coffee will be served at break times, morning and afternoon, with the usual social hour and cash bar being held Saturday evening.

The food service and atmosphere at the Dinkler is highly recommended and we look for an excellent weekend. Plan on attending and help formulate policy for 1979.

Sincerely,
Wallace E. Hart



1979 IBS WINTER MEETING — AGENDA ITEMS

1. Accept or reject rule changes made at the 1977 IBS Winter meeting.
2. Agenda Item No. 10-1977. Consider and take appropriate action concerning a better type of target paper for precise group measurement. Committee appointed to work on this and report back: Bob White, Chairman.
3. All Caliber and case capacity rules for firing in Hunter class competition should revert back to original IBS standards.
4. Consider an IBS suggestion for 2-Gun aggregate awards which include the Heavy Bench rifle in all registered competition.
5. Establish 300 Yd. and 200/300 Yd. Aggregate official records for all classes of rifles.
6. Allow electronic sensing devices for weather conditions in all classes.
7. Discuss, evaluate and vote on the advisability of returning the annual meeting of both the membership and Board of Directors to its original date.
8. Consider and adopt appropriate action concerning a common diameter scoring plug for the Hunter Class scoring system for a trial period. After the trial period its use or prohibition will then be mandated. The opinions of Directors of I.B.S. clubs holding Hunter matches should be given all possible priority.
9. Clarification of rule book Page 11 (N. Disqualification of targets and competitors, Paragraph 1.) Decision on how referee shall decide whether bullet touches or not on outside border line of target.
10. Decision on warm up matches. If the necessity arises, the warm up match may be eliminated. In the interest of completing a class or aggregate course of fire in the time available. Provision must be made to allow a competitor to get his rifle on paper in any event.
11. Reduce IBS fee from $1.00 to $.50 for Heavy Varmint matches being shot on Hunter rifle targets for score. Hunter rifle match fees are $.50 fired on same targets.
12. Revise flag regulations to prohibit flags being placed by competitors after benches have been drawn, and enforce.
13. For a one year trial period revise our rule book to require the removal of all bolts from rifles except between the appropriate commands given by the range officer and allow rifles to be placed on rests between relays.
14. Alter rule No. 6 under definitions page 3 in the rule book to allow the use of electronic triggers in Benchrest, Varmint and Sporter class rifles.
15. Discuss the possibility of an I.B.S. points competition during the summer registered match schedule to determine an annual I.B.S. points champion in each class of competition. This may increase registered match attendance throughout the summer months.
16. Suggest IBS print a membership name and address directory. (To be sold to members only; at a profit to IBS).
17. Combine the current positions of Secretary and Treasurer into one office prior to the next election.
18. Discuss and clarify the minimum age, degree of training and level of experience required of junior shooters, (a) supervised and (b) unsupervised.
19. Establish records for 200 Yd. Hunter class and Grand Agg. for 100 and 200 Yd. Hunter Class.

Cover Story

Our cover this month recognizes Federal Cartridge Company for its multitude of excellent products. Known by most of us for their primers it is often forgotten that they are making other excellent products.

Being naturally curious I ordered an assortment of their products in chamberings that I have in my gun cabinet. Upon their arrival I took some pictures (before I got the boxes dirty) and began to test the offerings.

The primers are tried and true friends. They were saved for later use. All of us know the success story of the Federal line of primers. They are the most widely used primers on the benchrest market today.

With the end of my school rifle club just around the corner I hauled along a box of 500 22 long rifle ammunition. Without telling the kids there was a change I let them shoot up the ammunition. I was interested in any obvious change over what we were using then.

As the evening advanced some of the better shooters began to inquire as to why their scores were a bit better than before. Almost all of my top boys felt that the ammunition behaved a bit better than the stuff in use. There were less wide shots and the X counts were higher.

Based upon that test, and some of my own shooting, I can only assume that the Federal rimfire ammunition (Champion) is good ammunition.

Next to be tested was the box of 38 special match 148 gr. wadcutters. They surprised me to no end. In my Model 19 S&W they produced the tightest grouping of any ammunition that has been used in that handgun, including my best reloads. The box was empty long before I wanted it to be.

The 125 gr. 357 Magnums made easy work of a couple of woodchucks. They were accurate and ejection from the cylinder was easy. Often the 357 magnum loadings come out of my Smith a bit roughly. These were fine.

I shot up a few 180 gr. 44 magnum jacketed hollow points in a handgun and about half a box from a Marlin 1894 lever action rifle. Both were entirely adequate for the job at hand.

The 308 Winchester Premium brand 165 gr. HP BT loads are being saved for hunting season. The ones used to sight in the deer rifle proved to exhibit good accuracy. The Sierra bullet being used has always been one of my favorite deer rounds. I predict the Federal ammunition to get excellent results.

The shotgun ammunition is still unfired at clay targets. They will serve for the hunting season warmup. Not being addicted to the clay target games at all I will have to farm out a box for testing. Shooters in my area report, however, that it is good ammunition.

From this short examination of the Federal product line (there are many more items in the catalog) one can only judge that there is a very up to date atmosphere in the Minneapolis based company. They are producing the products we need, and ask for, with skill and dedication to quality products.

For a complete catalog contact your dealer or Federal Cartridge Corporation, 2700 Foshay Tower, Minneapolis, MN 55402.

R.R.M.

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FREELAND OB BIPOD, Gray saddle or lug	38.00
FREELAND REGAL BIPOD, Gray w/12" extension RSB-12	41.00
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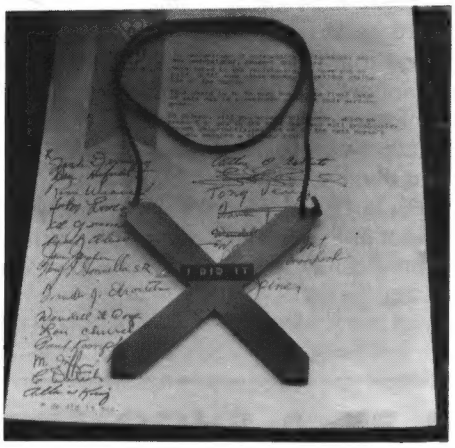


The "I Did It" medal as designed by Clyde Hart to put some honor into the crossfire. Signed by many who have been down the crossfire road; the medal roves from crossfirer to crossfirer. A real distinction for a great shooting job.

The "I Did It" award is a bit of fun in a too serious shooting game. It is something to break the tension. It is something to take ones mind off of disaster, especially a crossfire.

Clyde Hart arrived at the July 1 and 2 South Creek match with a letter and cross shaped award. It was signed and enjoyed by many.

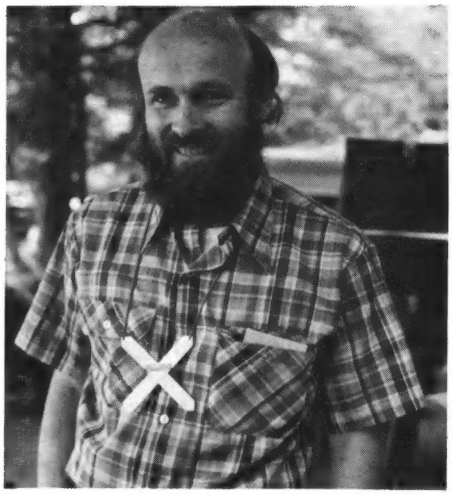
Just the preceeding match Ed Joiner had possibly lost the whole show by crossfiring. Clyde thought that it would be fun to give him a prize for that effort.

Designed to be passed from person to person as crossfires take place the prize rested around 3 necks that weekend.

Ed Joiner (L), the first recipient of the medal, passes it along to Seely Masker for a real shouter of a crossfire.

Ed Joiner passed it along to Seely Masker for his excellent job of yelling that someone was "crossfiring on my target". Seely wore the medal with distinction for several relays.

Seely was honored to be able to give it to Lynn Congdon. Lynn did not yell a lot so his awards ceremony carried a lot less status. It was just a crossfire; nothing spectacular.



Lynn Congdon, the number 3 holder of the medal, beams with pride over his accomplishment even though he took a back seat to Seely Masker in the "get-upset" category.

At the moment the medal is moving about. Who has it now? Who will get it next? It will be interesting to see where it turns up next. Crossfire anyone??

The International Corner

This month finds interest developing in the Netherlands. Although this contact is only preliminary it is good to know that there is interest. Rick Hornbeck reports that there is more to come. Look here to keep up to date on the international activity. R.R.M.

The International Benchrest Shooters Association

Dear Sirs:

The Koninklijke Nederlandse Schutters Associatie (Royal Dutch Shooters Association) is planning to enlarge the choice of disciplines for their shooters.

We therefore kindly request you to inform us about Benchrest shooting.

Thanking you in advance we remain:

Sincerely yours,

Adam P. Wagemaker
Bondsbureau
Bezuidenhoutseweg 205
2594 AJ's-Gravenhage
Netherlands

August 16, 1978

Dear Mr. Wagemaker,

IBS Recording Secretary Evelyn Richards has forwarded your letter of July 12. As the IBS International Committee chairman I am writing to you with additional information. The International Committee is made up of members from each affiliated country; currently Australia, Canada and Italy. The function of this group is to coordinate rules concerning rifles, equipment and matches and such other business necessary to maintain a high degree of standardization of rifles and match procedures.

Enclosed is a current IBS rule book that will offer you some insight concerning the rifles in use throughout the world among benchresters; and rules for conducting matches. If you would like more detailed and technical information on the rifles and ammo currently in use I would be happy to answer any specific questions.

Currently, we have two groups in Europe that are formulating benchrest shooting and predict affiliation with IBS during the coming year. In France, our contact is George Cunnington, 38 rue Barbes, 92120 Montrouge, France. This group is currently awaiting government approval for affiliation. In West Germany, our contact is Peter Hammerich, Heimstattenstr 30, D-8000 Munchen 40, West Germany. This group predicts affiliation during 1979.

Each affiliated country has a member on the International Committee. In addition to other duties, the Committee conducts an annual Postal Match for the Light Varmint, Heavy Varmint and Heavy Benchrest Rifle classes. Medallions are awarded each team member for 1st, 2nd and 3rd places in each class. The costs of the Postal Matches are carried by IBS.

Please feel free to write me for any additional information you find necessary to develop this type of rifle competition in the Netherlands. I assure you IBS President Wallace Hart will also offer additional assistance to you if you wish to contact him.

Sincerely,

Lt. Col. Rick Hornbeck, USAF (Ret)
R. D. No. 2, Box 220
Pine Bush, NY 12566
USA

Benchrest Headlines — 25 Years Ago

by A. H. Angerman

- Highlights of the 1953 Director's meeting in Wichita, Kansas, September 10 revealed some astute thinking and democratic action:
  (1) Possible world record targets must be accompanied by their moving backers.
  (2) A heavy bench rest rifle was defined as one capable of shooting reasonably safe ammo, any sights, any weight and with its trigger actuated with any convenient finger.
  (3) The NRA invited the bench rest shooters to hold their championship matches at Camp Perry, Ohio.
  (4) Harvey Donaldson and Colonel Whelen were made life members.
  (5) A stationary backer to identify cross fires during registered matches was made a necessity as of Jan. 1, 1954.
  (6) Rod Janson, Seattle, Wash. was elected president.
  (7) Shots outside of but not touching the record target borderline will disqualify the target. (This rule is still valid in IBS. Missing shots or shots over the record borderline result in penalties not DNQ's according to current NBRSA rules.)
  (8) Life membership was posted at $50.00.
- A .370" ten shot group from 100 yards fired by Ralph Pride, Portland, Oregon didn't hold up against Olive Walker's earlier record of .326". Tough luck Ralph.
- The Johnstown, N.Y club maintained its well established excellent reputation for putting on a terrific bench rest shoot, and their efforts on September 5-6, 1953 were no exception. Al Creighton, from Waynesburg, Ohio won the 200 yard and the grand aggs. Al has been, and still is, a very good friend of bench rest shooting. He has been at it for many years, is a good active competitor, and is one of the contact men for the McKinley BRS club. (I remember watching Al handloading at Lewistown, Pa. in 1954 several years before I took my first look at real competition.)
- Crawford Hollidge from Marston Mills, Mass. plastered a 259" ten shot group from 100 yards that was quickly disengaged from public view and submitted to the record committee for official measurement.
- There were a lot of trophy and memorial matches at the Johnstown shoot. Homer Culver won the Donaldson trophy match. Ron Sinclair, (probably no relative to Becky), won the Lucian Cary match, Linus Douglass won the Hornady trophy, Al Creighton won the Taylor and Robbins trophy and the Herter award, Irene Robbins won the Bushnell Smith Memorial trophy, while Culver, Walker, Taylor, Cotter, Deere, Glendenning, Robbins, McNally, Heap and others won merchandise from the Al Marcianti Memorial match. Bench rest shooting is now relatively impersonal.
- The raffle of a set of Biehler and Astles bullet making dies, which were the very best (even now) brought $70.00!

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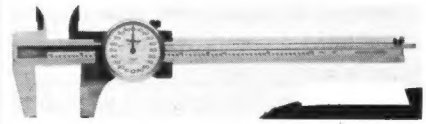

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Back Issue Update

The following are the back issues on file as of this date. Some are in limited quantity so order now if you need to fill in your reference file.

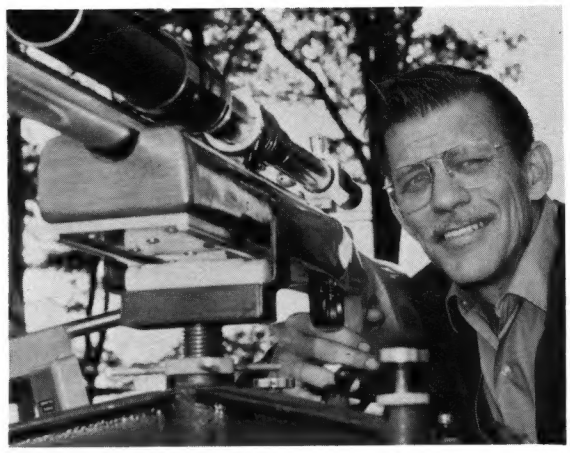
1978—All issues to date
1977—All issues
1976—All issues
1975—No February, May or September
1974—No February or March
1973—No February, March, July or November
1972—All issues
1971—All issues
1970—All issues
1969—All issues
1968—No February
1967—No December
1966—No June
1965—No February
1964—No June, July, August, September, October or December
1963—All issues
1962—No January or February
1961—October only
1960—No January, February, March or April
1959—March only
1958—July, November and December only

Shooter's News
1955—November and December only
1954—April, May, June, July, August and October only
1953—January, February and March only
1951—January and March only

There is also a complete set from 1949 to 1977 for sale as a lot. $150.00 buys $168.00 worth of back issues.

Benchrest Feature

by Lt. Col. Rick Hornbeck
R.D. 2, Box 220
Pine Bush, New York 12566



RINGS

The last few years have seen more and more internal adjustment scopes in use at benchrest matches, thanks to the designing of scopes that offer the quality optic designs and light weights we desire for our 10-1/2 pound and 13-1/2 pound rifles. Offered by Lyman, Leupold and Redfield we have these shorter scopes in powers up to 25X. Although field of view might be somewhat less than experienced in the past with larger objective lens and greater weight, brightness of image loss has been minor. Exit pupils are surely acceptable, and in some cases greater than with scopes of less powder. Leupold and Redfield have always offered great optics and brightness in their higher powder scopes. Lyman has joined the ranks with the coming of their 25X LWBR. We will be evaluating the Lyman 25 X LWBR in the future, along with the Siebert conversion.

New in the benchrest game are the rings and blocks for mounting these scopes on a rifle. The selection of rings and blocks is almost endless. All the old familiar makes we have used on our hunting rifles are now adaptable for our benchrest rifles. Redfield, Weaver, Bushnell, Leupold Lyman, Ruger, Buehler, and Conetrol, produces rings and blocks that can be used. Then we have B-square coming along with rings and blocks designed just for benchrest shooting. How good can we have it?

This all leads to some new thinking about something that has been more or less taken for granted in the past. I am referring to mounting rings. Some interesting things are being learned.

For example: the endless concern of saving weight, which brought us to the lighter internal adjustment scopes, can be applied to rings and blocks. There is a difference between makes and models and some comparisons can be made. For example: let's look at rings of various makes that we can use. We deal here with rings only, not blocks. Let's look at the B-Square LWBR rings, and in this case we include blocks and the mounting screws. An example checked out at 2.418 oz. The Weaver high rings weigh 3.106 oz. Leupold Std. rings, medium height — which might not make it for objective lens clearance on all rifles are .770" high and (catalog No. 26160), check out at 2.557 oz. Our last example is the Bushnell (catalog No. 76-3102), which comes in only medium height at this time. They might offer a barrel clearance problem for the objective lens on some rifles. They check out at 1.852 oz. This selection amounts to .705 oz. difference. Not much really; but if getting a rifle weight down to acceptable limits is a problem it's a way of getting weight down to something over one half ounce.

Scope blocks are made of aluminum and steel and a weight savings of over several ounces can be saved by proper selection. The limitation here is in finding blocks that fit the rifle. The selection of blocks in nearly endless and different blocks are interchangeable. For example: Weaver blocks No. 19 will fit a rifle and are about the lightest that can be had. Bushnell rings give proper objective clearance over the barrel: you have a light and adequate mounting system that is hard to improve on as far as weight is concerned.

Pat McMillan has found a way to cut down on the weight some when using Weaver top mount rings. He cuts the center one third section of the top rings out for a savings of a little over a half ounce for both rings.

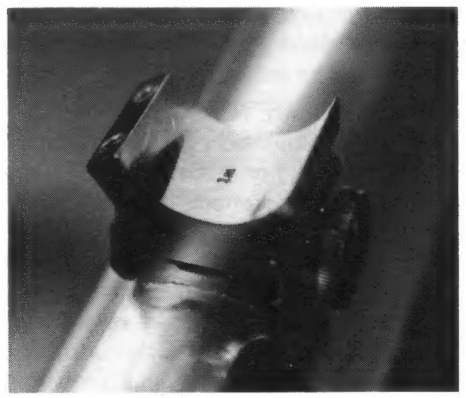
When you mount a scope in any rings use a trick that has been used by those gunsmiths in the know for a lot of years. To acquire a no-slip mounting without applying great force on the scope tube spread a very small amount of rosin between rings and scope. The rings then really grip the scope tube and you don't have to deform the scope tube to prevent movement, even on the hard kicker.

Another item of interest: with the wider use of allen headed screws in scope rings and blocks, take it easy, for the force applied is much greater than with conventional slotted screws. This will prevent a stripped thread and the problems that go with it. When tightening put the long leg into the head and turn with the shorter section.

I checked out a number of block makes for hole alignment and found that some are great and others are not so hot, even in the same make and model. Add the fact that not every hole drilled into actions and sleeves for mounting the blocks is in perfect alignment and we can have a sporty time lining up the scope. God bless B-Square and their LWBR mount! When holes are not lined up too great the rings aren't either and only part of the rings are making 100% contact with the scope tube. Some rather strange forces are being applied to the scope tube in general.

We now bring up the subject of scope ring lapping. This will help correct the ring misalignment to some degree and remove some of the errors that are in the rings. Some makes of rings have more flaws than others.

Often one set of rings will be found to



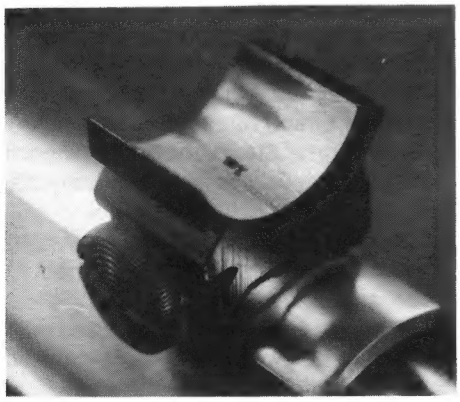
Rear lower ring; Front edge was high, lapped to almost 100% contact.

have good contact while another set of the same will not. The examples in the photos are Weaver but they are not the only rings that sport such evidence of voids in contact. Lapping corrects this for the most part. Leupold rings checked were found to be free of all such error and I'm sure you might find other makes to be OK also.

Lapping rings is just fine so long as you know what you are doing and don't get carried away. As lapping takes place you are eating away metal and making more room for the scope. If carried to extremes this can make a really sloppy fit of rings to scope. In a word: correct part of the error but don't expect to remove all voids in every case. The blocks in the photo show the limit for this set. Others have cleaned up completely.

The blocks in the photo were high on the front edge of the bottom half of the rings. Some minor voids were still present as lapping was concluded. Scope-ring contact was improved about 80% which can't hurt a thing and will surely take some of those unseen, undesirable forces off that costly scope. Of course the tube that is used for lapping must be straight and of proper diameter for accaptable results.

For lapping, I prefer an aluminum bar that has been turned to a true diameter equal to the scope tube diameter. All are advertised as one inch. Some are, some are not. The blocks are secured and the bottom rings are attached to the blocks. A lapping compound is applied to the pre-turned bar and the bar is worked back and forth in both front and rear rings while rotating the bar. If a great deal of lapping takes place the compound should be removed from the rings and the scope mounted to insure against removal of excessive metal which results in a sloppy oversize hole for the scope to make contact with. The procedure takes very little time. On some rifles it's time well spent. On others, it simply is not necessary.



Front lower ring; Front edge was high, rear edge after lapping continues to show voids.

UNREGISTERED BENCH REST TOURNAMENT
CAPITOL CITY RIFLE & PISTOL CLUB, AUGUSTA, MAINE
OFFICIAL BULLETIN JULY 23, 1978

MASTER	**HUNTER — 10 LBS**	**HUNTING RIFLE — 9 LBS**
H. Curry	248-9x Winner	93-3x 1st
D. Caruso	243-6x 1st	92-2x
C. Rittall	240-6x	95-2x Winner
J. Gilbert	239-4x	84-1x
HUNTER		
R. Veilleux	228-6x 1st	
A. Garcelon	224-4x	76
D. Furrow	202-2x	89
MARKSMAN		
G. Parsons	199-1x 1st	86

OPEN MATCH 13-1/2 LBS

	MATCH No. 1	**Match No. 2**	**Match No. 3**
D. Caruso	97-1x	100-5x 1st	197-6x Winner
H. Curry	98-3x 1st	97-4x	195-7x 1st
J. Gilbert	96-1x	98-5x	194-6x
C. Rittall	97-2x	95	192-2x
D. Furrow	95	95-1x	190-1x
G. Parsons	83	93-3x	176-5x

"NOTES"

Conditions were not the best to say the least! Extreme heat plus winds and constantly changing from sunny to cloudy combined to make it hard to shoot. Thanks to all competitors for their support and help to run the matches.

BENCH REST TOURNAMENT
CAPITOL CITY RIFLE & PISTOL CLUB, AUGUSTA, MAINE
OFFICIAL BULLETIN AUGUST 20, 1978

MASTER	**200 YD HUNTER 10 LBS CHAMPIONSHIP — REGISTERED**	
Cecil Rittall	237-2x State Champ 1978	
Howard Curry	237-1x 1st Master	
Dan Caruso	233-1x	
John Lynds	230-2x	
Joe Gilbert	227-2x	
Roland Veilleux	DNF	
MASTER	**100 YD HUNTER 10 LBS**	**200 YD HUNTING RIFLE — 9 LBS**
Dan Caruso	245-8x Winner	74
C. Rittall	243-5x 1st	89 1st
H. Curry	238-4x	83
J. Gilbert	236-4x	90 Winner
J. Lynds	233-2x	86
HUNTER		
R. Veilleux	233-5x 1st	DNF

Officials: Gary Gilbert, Range Officer; Cecil Rittall, Chief Referee; Howard Curry, Referee; Dan Caruso, Referee; Roland Veilleux, Statistician. Thank you gentlemen for a job well done.

Thank you and good shooting
J. O. Gilbett

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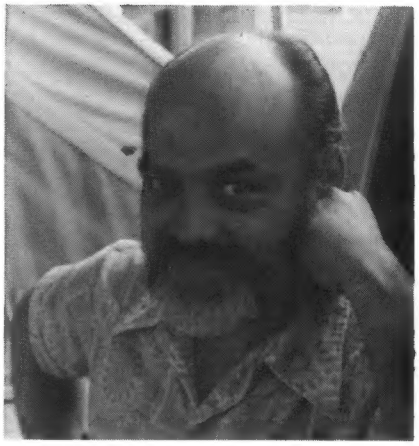
From The Workbench

by Fred Sinclair



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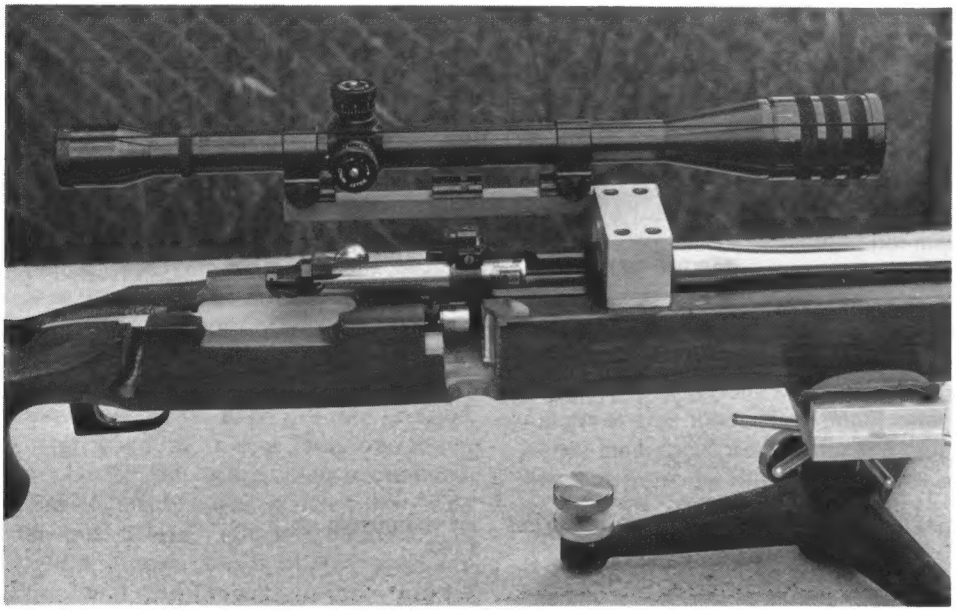

With the increased interest in metallic silhouette shooting for pistols we have been building a few XP-100's for this type shooting.

The construction of these pistols was started in a rather reluctant manner as I had never been much of a handgun "buff".

However as the number of inquiries rose so did our enthusiasm and now we are "hooked".

My big problem was that if I wasn't sitting down and looking through a 20X, or better scope, I didn't know how to shoot.

The idea of using iron sights and working up a load just wasn't something I could grasp.

To even the odds I rigged an old heavy bench stock so that I could bolt in the XP barreled actions, work up a load using a scope and, once this was accomplished, zero the iron sight with my scope. The rest was up to the shooter.

While working with these XP barreled actions in my "unrestricted pistol" I became very impressed with the accuracy obtained with the short, light weight barrels. (Rules limit the length to 15" and maximum weight rules of 4-1/2 lb. limit the barrel weight to approximately 1-3/4 pounds.)

I was hoping to obtain MOA accuracy with match grade stainless barrels.

The first barreled action tried in the "big gun" was a 7 x 47 loaded with 30 grains of No. 335 and 120 grain bullets.

The first group out of the darn thing went .400 (100 yards) and several other different loadings shot groups well under 3/4" MOA.

The second barreled action was a standard grade chrome moly barrel chambered in 300 Savage.

Again I was amazed as it was no problem to obtain 1" MOA with 150 to 168 grain bullets and several powders such as 4895, 748, No. 380 and 4759.

All of this resulted in my having some chronographing done by Geiger's Chronographing Service in Defiance, Ohio.

I had long been told by the barrel makers that the short barrels would shoot as good or better than longer ones but even so I felt that the velocity loss between a 24" barrel and say an 18" barrel would be too great.

Wrong again, Fred!

The 300 Savage has a 14-1/2" barrel and the chronograph results were as follows:

125 grain bullet — IMR 3031 (5 shot groups)
- 39 grains—2324 fps
- 40 grains—2402 fps
- 41 grains—2487 fps

125 grain bullet—IMR 4759 (5 shot groups)
- 32 grains—2490 fps
- 33 grains—2512 fps
- 34 grains—2551 fps

150 grain bullet—IMR 4759 (3 shot groups)
- 29 grains—2162 fps
- 30 grains—2237 fps
- 31 grains—2293 fps
- 32 grains—2337 fps

150 grain bullet—H4895 (3 shot groups)
- 33 grains—1861 fps
- 34 grains—1947 fps

This last load is of course reduced from the others and was done to have a load for actual shooting of the pistol.

The other loadings would be to much to handle in a 4-1/2 lb. handgun.

Checking a Sierra loading manual I noted that they show approximately 300 fps more velocity in a 22" barrel.

Going one step further, we wanted to see what velocity losses were encountered at lengths less than the 15" required for the silhouette pistols and with the reduced powder charges being used for pistol shooting.

Dave started with a 15" barrel chambered for the full 308 Winchester and ran

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velocity checks until the barrel length was 9".

We selected loadings with 150 grain bullets and charges of 4895, 748, 335 and 4759 that would give a muzzle velocity of approximately 2000 fps in a 15" barrel.

Velocity loss per inch was much less than expected until a barrel length of 10" was reached at which point the loss per inch doubled that which we received from 15" to 11".

Of course some of the powders reacted differently than others but all the results were surprising to me.

A couple of examples would be: with 335 we were still getting over 1900 fps in a 11" barrel and the average loss per inch with the 4759 (from 15" to 9") was only 43 fps, with velocity from a 9" barrel at 1683 fps.

The benefit obtained from this information could lead to a good many heated discussions and points out the fact that grown men will still go to great lengths to satisfy their curiosity.

However, it does point out the fact that an inch or two of barrel isn't going to make a noticable difference in velocity.

From the information Dave Geiger produced from his chronographing and the printed velocities on hand we found that less than 50 fps was lost with each inch of barrel length reduction from 24" down to 9".

Last but not least, I expect that most of us have competed near someone shooting No. 335 in a bench gun and got the "flinches" from doing so. Dave informs me that he thought he had passed on to his great reward when he touched off 38 grains of it in a 9" barrel. He accused me of loading the darn thing with NAPALM.

IBS Registered Shoot Report
CAMILLUS SPORTSMEN'S CLUB
CAMILLUS, NEW YORK
May 20 and 21, 1978
Light Varmint and Heavy Varmint

This weekend found 40 Heavy Varmint and 29 Light Varmint shooters competing for the top prizes at Camillus. Conditions were not ideal and the aggregates show it, especially at 200 yards.

Havy Varmint
At 100 yards the top five were:

1. Jack Deming ..... .2474
2. Frank Obrochta ..... .3308
3. Seely Masker ..... .3344
4. Bob DeMonstoy ..... .3856
5. Jeff Stover ..... .3906

Small group J. Deming ..... .108

Light Varmint

1. Art Blensinger ..... .3948
2. Jack Deming ..... .4180
3. Bill Gammon ..... .4232
4. M. H. Walker ..... .4455
5. S. Walter ..... .4478

Small Group S. Masker ..... .148

200 yard winners were:
Heavy Varmint

1. Alan King ..... .5563
2. Bob DeMonstoy ..... .6416
3. Jeff Stover ..... .6571
4. Clyde Hart ..... .6802
5. Art Blensinger ..... .7080

Small group Elaine King ..... .703

Light Varmint

1. Jack Deming ..... .6071
2. Dave Hall ..... .6263
3. S. Walter ..... .6622
4. Seely Masker ..... .6844
5. J. Smith ..... .7020

Small group D. Hall ..... .478

Grand Aggregate winners figured out as follows:
Heavy Varmint

1. Alan King ..... .4778
2. Bob DeMonstoy ..... .5136
3. Jeff Stover ..... .5238
4. Seely Masker ..... .5574
5. Clyde Hart ..... .5815

Light Varmint

1. Jack Deming ..... .5126
2. S. Walter ..... .5550
3. Seely Masker ..... .5726
4. Clyde Hart ..... .5872
5. Dave Hall ..... .5892

The Two Gun Aggregate winners were:

1. Jack Deming ..... .5622
2. Seely Masker ..... .5650
3. Clyde Hart ..... .5844
4. Jeff Stover ..... .6138
5. Dave Hall ..... .6181

Henry Gonnella, Sr.
Reporter

IBS REGISTERED HUNTER RIFLE MATCH
SAGINAW FIELD & STREAM CLUB
SAGINAW, MICHIGAN

June 24, 1978

NAME	SCORE	RIFLE	CAL		LOAD
MASTER HUNTER					
1. Fred Gregg	246-4x	Rem-Sinclair	.308	40 gr.	4895
2. Elmer Herzog	243-4x	Rem 700	.222	19gr.	4198
HUNTER					
1. Bob Dodge	239-3x	Rem 722	.222	19gr.	4198
*2. Dick Wright	236-2x	Shilen DGA	.222	25gr.	4895
MARKSMAN					
**1. Shelley Wright	225-1x	Sako	.222	25 gr.	4895
2. Ray Wright	221-2x	Rem 700	.243	32.5gr.	3031

*Won warm-up match: 50-3x
**Won factory rifle

UNLIMITED

1. Tom Schopp	.365	Rem 700	.222	20gr.	Rel. 7

Fred Gregg came down from Sault St. Marie to show the local boys how to shoot. Shelley Wright won both high marksman and high factory rifle her first time out.

July 29, 1978

NAME	SCORE	RIFLE	CAL	LOAD
MASTER HUNTER				
1. Dick Wright	243-2x	Shilen DGA	.222	25gr. 4895
2. Elmer Herzog	241-4x	Rem 700	.222	19gr. 4198
3. Bob Dodge	241-3x	Rem 722	.222	19gr. 4198
HUNTER				
*1. Bob Cernek	238-1x	Rem 700	6 PPC	28.5gr. H-322
2. Ray Wright	229-2x	Rem 700	.243	40gr. 760
MARKSMAN				
1. Shelley Wright	220-1x	Sako	.222	20.3gr. Rel No. 7

UNREGISTERED HEAVY VARMINT

1. Merlin Janes	.502	Rem 40X	.222	21gr. 4198
2. Ed Korowich	.594	Rem 40XBR	.222	20.5gr. 4198

UNREGISTERED HEAVY BENCH

1. Bob Polensky	.462	Sako	22/45	46.5gr. 748
2. Todd Polensky	.426	Win.	22/40	46.5gr. 748
3. Tom Schopp	.583	Rem 700	.222	20.5gr. Rel. 7

*Won warm-up match: 50-0x
**Won Factory Rifle

YORK COUNTY CHAMPIONSHIP
IBS REGISTERED HUNTER RIFLE MATCH
IZAAK WALTON LEAGUE, York, Pa. July 23, 1978

NAME	SCORE	CAL.	RIFLE	SCOPE	BULLET	LOAD	PRIMER	CASE
1. P. Thompson*	250-9	308	Rem.	Weaver	168 Gr	40 Gr	Fed.	Govt.
Dauphin, Pa.			Hart	4-12	Sierra	4064		
2. R. Gower*	248-6	308	Rem.	Weaver	168 Gr	39 Gr	Fed.	Fed.
Slatington, Pa.			Atksn	6X	Sierra	4895		
3. G. Green	247-10	308	Rem.	Pecar	168 Gr	38 Gr	Alcan	Norma
Hughesville, Pa.			Hart	6X	Sierra	4064		
4. R. Parry	247-9	308	Rem.	Lyman	168 Gr	38 Gr	Rem.	Win.
Forksville, Pa.			McMil	6X	Sierra	3031		
5. V. Pastorella	246-9	308	Rem.	Weaver	168 Gr	41 1/2 Gr	Fed.	Fed.
Milnesville, Pa.			Hart	6X	Own	4895		
6. G. Voorhees	245-8	308	Rem.	Lyman	168 Gr	40 Gr	Fed.	Fed.
Slatington, Pa.			Hart	6X	Sierra	4895		
7. Agnes Sabo	244-5	308	Rem.	Lyman	168 Gr	41 Gr	Fed.	Fed.
Hazleton, Pa.			Hart	6X	Own	4895		
8. R. Linn	243-9	308	Rem.	Lyman	168 Gr	39 Gr	CCI	Fed.
York, Pa.			Hart	6X	Sierra	3031	BR	
9. Jeanne Lynn	243-9	6PPC	Rem.	Lyman	70 Gr	29 1/2 Gr	200M	Sako
Williamsport, Pa.			Hart	6X	Own	748		
10. C. Lynn	242-5	6X47	Rem.	Lyman	70 Gr	26 Gr	Rem.	Rem.
Williamsport, Pa.			Hart	6X	Own	4895	7 1/2	
11. P. Olewine	240-5	6MM BR	Rem.	Leupld	68 Gr	32 Gr	Fed.	Rem.
Dauphin, Pa.			Hart	3X9	Custom	748		
12. Randy Fritz	240-4	308	Rem.	Lyman	168 Gr	41Gr	Fed.	Fed.
Bloomsburg, Pa.			Hart	6X	Sierra	4064		
13. C. Eckrote	238-8	308	Rem.	Lyman	168 Gr	41 Gr	Fed.	Fed.
Drums, Pa.			Hart	67X	Own	4895		
14. E. King	238-6	308	Rem.	Lyman	168 Gr	39 Gr	Rem.	Fed.
Phila., Pa.			Rem.	6X	Sierra	3031		
15. M. Neuhard	237-7	308	Rem.	Lyman	168 Gr	40 Gr	Fed.	Fed.
Bloomsburg, Pa.			Dgls	6X	Sierra	4064		
16. R. Drexler	237-1	6HLS	Rem.	Weaver	85 Gr	38 Gr	Rem.	Win.
Churchville, Pa.			Hart	6X	Sierra	760	9 1/2	
17. E. Gates	232-4	308	Rem.	Leupld	168 Gr	42 Gr	Fed.	Govt
Harrisburg, Pa.			Hart	3X9	Sierra	4895		
18. L. Loucks	225-2	308	Rem.	Leupld	168 Gr	41 Gr	Win.	Win.
York, Pa.			Dgls	6X	Sierra	r4895		
19. K. Miller	224-3	308	Rem.	Weaver	168 Gr	42 Gr	Fed.	Win.
Jacobus, Pa.			Hart	6X	Sierra	4895		
HUNTER								
1. Randall Fritz*	242-7	Rem.	Lyman	168 Gr	39 Gr	Fed.	Govt.	
Bloomsburg, Pa.			Hart	6X	Sierra	4064		
2. B. Druck*	242-3	308	Rem.	Lyman	168 Gr	39 Gr	Fed.	Fed.
Dover, Pa.			Hart	6X	Sierra	3031		
3. W. Wagman	240-5	308	Rem.	Leupld	168 Gr	46 1/2 Gr	Rem.	Fed.
Dallastown, Pa.			Rem.	3 1/2 X10	Sierra	760		
4. J. Cowey	234-5	6X47	Rem.	Weaver	70 Gr	29 Gr	CCI	Herter
York, Pa.			Shln	6X	Sierra	748		
5. R. Stiffler	239-4	6/250	Rem.	Weaver	62 Gr	34.7 Gr	Fed.	Win.
Shrewsbury, Pa.			Hart	T6	Hart	748		
6. J. L. Grim	238-7	308	Rem.	Leupld	168 Gr	39 Gr	———	Govt.
			Hart	3X9	Sierra	3031		
7. L. Ressler	226-2	308	Rem.	Weaver	168 Gr	42 Gr	Fed.	Fed.
York, Pa.			Hart	T6	Sierra	H335		
MARKSMAN								
1. J. Gettis*	226-4	308	Rem.	Weaver	168 Gr	37 Gr	Rem.	Fed.
Phila., Pa.			Hart	T6	Sierra	3031	9 1/2	

* Awarded Trophy

From the beginning, Paul Thompson left no doubt that he was on the way to the 1978 York County Championship. He backed up the threat by posting a perfect 250 with 9 X's. With the 90 plus heat and the heavy mirage all agreed that it was nice shooting. Congratulations Paul. Roger Gower was not far behind with a 248-6. Randall Fritz did a good job in the Hunter class with a 242-7.

R. A. Linn, Reporter

P.S. A 1 Gal. Thermos jug was left in the club house. Will hold for owner.

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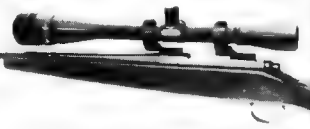

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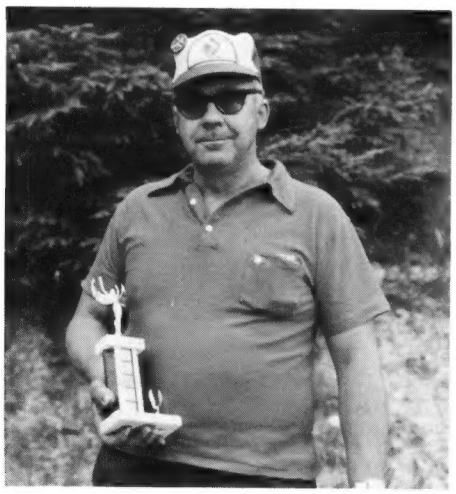
IBS Registered Shoot Report
SOUTH CREEK ROD & GUN CLUB
July 1 and 2, 1978
Heavy Varmint and Light Varmint

The July 4th weekend proved to be a good one at the South Creek range. Often noted for miserable conditions, it behaved for a change and all competitors had a chance to do good work. There were 86 Heavy Varmint and 67 Light Varmint shooters.

Lou Church was the winner of the 100 yard Heavy Varmint aggregate at .2278 and the leader in the Heavy Varmint Grand with .3102.



Bob DeMonstoy won the Heavy Varmint 200 yard event with .3115.

Conditions were fairly steady on both days, giving a pleasant set of targets to most shooters. It was not a hot day and most of those on hand thoroughly enjoyed the contest. Food and fellowship always makes for a nice event. It was a rather casual match.

The 100 yard winners were:

Heavy Varmint
1. Lou Church ..... .2278
2. Paul Wothe ..... .2560
3. Cecil Gamble ..... .2590
4. Paul Kempfer ..... .2708
5. Clarence Detsch ..... .3210

Small Group Ed Joiner ..... .128

Light Varmint
1. Art Blensinger ..... .2676
2. Lloyd Richards ..... .3164
3. Bob White ..... .3182
4. Mike Griffin ..... .3290
5. Cecil Gamble ..... .3298

Small group Ross Weaver ..... .118

The 200 yard winners were:

Heavy Varmint
1. Bob DeMonstoy ..... .3115
2. Joe Vinci ..... .3221
3. Ritchie Moorhead ..... .3221
4. Wally Hart ..... .3292
5. Mike Griffin ..... .3355

Small group Paul Kempfer ..... .267

Light Varmint
1. Clarence Detsch ..... .2792
2. P.J. Hart ..... .3135
3. Bill Theis ..... .3389
4. Glen Price ..... .3632
5. Seely Masker ..... .3790

Small group Bill Brawand ..... .358

Grand Aggregate winners ranked as follows:

Heavy Varmint
1. Lou Church ..... .3102
2. Ritchie Moorhead ..... .3388
3. Clarence Detsch ..... .3397
4. Paul Kempfer ..... .3408
5. Lloyd Richards ..... .3504

From l to r — Ross Weaver, 3rd in the Light Varmint Grant at .3572, Bill Theis, 2nd in the Light Varmint Grand at .3462 and Clarence Detsch, the Light Varmint Grand winner with .3182. Clarence also had a .2792 to take the Light Varmint 200 yard event, a .3210 for 5th. Heavy Varmint 100 yards and a .3397 for third in the Heavy Varmint Grand Aggregate.

Shown are two of the Two Gun winners. Art Blensinger, who was third had already left for home. Clarence Detsch has an armload of trophies, including first in the 2 Gun with .3289. Bill Theis was second at .3530.

Light Varmint
1. Clarence Detsch ..... .3182
2. Bill Theis ..... .3462
3. Ross Weaver ..... .3572
4. Art Blensinger ..... .3624
5. Seely Masker ..... .3626

The Two Gun winners were
1. Clarence Detsch ..... .3289
2. Bill Theis ..... .3530
3. Art Blensinger ..... .3567
4. Glen Price ..... .3756
5. Mike Griffin ..... .3787

The equipment for the top five is listed below

EQUIPMENT SHEET JULY 1 & 2, 1978

P. Competitor	Cal.	Action	Scope	Barrel	Gunsmith	Load	Bullet	Primer
HEAVY VARMINT CLASS								
1. L. Church	6PPC	Rem	Leupold 24	Hart	Butler	28 1/2-322	Euber 68	205
2. R. Moorhead	22PPC	600Slv	Redfield 24	Hart	Sinclair	27 1/2-H322	Rem HP 52	205
3. C. Detsch	6PPC	—	Ly/Sieb. 25	Hart	Detsch	H322	Detsch 70	Fed
4. P. Kempfer	6PPC	Kempfer	Leu. 24	Hart	Kempfer	28-H322	Detsch 70	Fed
5. L. Richards	6PPC	RemSlv	Leu. 24	Hart	Kempfer	28 1/2-H322	Rem 68	Fed 205
LIGHT VARMINT CLASS								
1. C. Detsch	6PPC	Detsch	L/S 30	Hart	Detsch	H322	Detsch 70	Red
2. W. Theis	6PPC	Rem.	L/S-25	Hart	D.Miller	28.5H322	Detsch 70	205
3. R. Weaver	222	XP100	LWBR 25	P.McMillan	G.McMillan	—	Rem 52BR	R.7 1/2
4. A. Blensinger	6PPC	Rem 660	Ly. 25	Hart	Kempfer	28-H322	Detsch 70	Fed 205
5. S. Masker	6PPC	R.40X	Leu. 24	Hart	Masker	28 1/2-H322	Hollister	Fed 205

SULPHYR SPRINGS RIFLE AND REVOLVER CLUB, INC.

REGISTERED HUNTER MATCH JULY 30, 1978

Master Class	Score	Cal.	Rifle	Scope	Bullet	Load	Case	Primer
1. Roger Gower	250-11x	308	Rem. Atksn	Weaver	Sierra 168	39gr. 4895	Fed.	Fed.
2. Guy Green	248-11x	308	Rem.722 Hart	Pecar	Sierra 168	38gr. 4064	Norma	Alcan
3. Russell Parry	247-7x	308	Rem. McMillan	Lyman	Sierra 168	39gr. 3031	Win.	Rem.
4. William Theis	245-8x	6-47	Rem. Hart	Lyman	Sr. Bt. 70	27gr. H322	Fed.	Fed.
5. Conrad Eckrote	245-8x	308	Rem.700 Hart	Lyman	Own 168	39gr. 3031	Fed.	Fed.
6. Vince Pastorella	244-7x	308	Rem Hart	Weaver	Own 168	41gr. 4895	Fed.	Fed.
7. Jeanne Lynn	242-12x	6PPC	Rem 700 Hart	Lyman	Own 70	29.5gr 748	Sako	200m
8. Helen Long	241-8x	308	Rem.	Weaver	Sierra 168	41gr. 4895	Fed.	Fed.
9. Carl Lynn	241-3x	6x47	Rem700 Hart	Lyman	Own 70	26gr. 4895	Rem.	7 1/2
10. Marion Newhard	240-5x	308	Rem. Douglas	Lyman	Sierra 168	40gr. 4064	Fed.	Fed.
11. Bruce Michael	240-3x	308	Rem.	Lyman	Sierra	41gr. 4064	Govt.	Fed.
12. Agnes Sabo	237-8x	308	Rem. Hart	Lyman	Own	41gr. 4895	Fed.	Fed.
HUNTER CLASS								
1. Bill Gebhardt	248-9x	308	Rem.	Leupold	Sierra 168	41 1/2gr. 4064	Fed.	210
2. William Taylor	247-7x	308	Rem.	Redfield	Sierra 168	39gr. 3031	Fed.	Fed.
3. Dennis Edwards	242-6x	308	Rem.700	Leupold	Sierra 168	39gr. 3031	Fed.	CCI
4. Maurice DiLouie	240-3x	308	Rem.700 Hart	Lyman	Sierra	39.7gr. 4895	Hert.	210

SULPHYR SPRINGS RIFLE AND REVOLVER CLUB, INC.

HEAVY VARMINT MATCH JULY 30, 1978

Name	Score	Cal.	Rifle	Scope	Bullet	Load	Case	Primer
1. Ray Mitch	250-12x	6mm ppc	Rem					
2. Dale Boop	250-10x	6mm	Rem. Hart	Lyman	Rem. 68	28.5gr 322	SK	Fed.
3. Nathan Boop	250-7x	6mm	Rem. Hart	Lyman	Rem. 68	28.5gr 322	SK	Fed.
4. Ray Mitch Jr.**	250-6x	222	xp100 Rem. Hart	Leupold				
5. Larry Hanselman	250-6x	6x47						
6. Joseph Campana	248-8x	222	Rem.	Lyman	Rem. 52	21gr. 4198	Fed.	205
7. Guy Green	247-9x	308	Rem.40x Hart	Unertl	Sierra 168	48gr. 760	LC66	Alcan
8. Joseph Salata	247-7x	222mag.	Rem.	Leupold	F.B. 52	27.5gr. 4825	Rem.	Rem.
9. William Theis	247-6x	222	slxp100 Hart	Leupold	Detscit 52	20gr 4198	Fed.	Fed.
10. Dale Hanselman**	246-5x	6mm	Rem. Hart	Leupold	Rem.	27.5gr. H322	Fed.	Fed.
11. Phil Irey	245-7x	308	Rem40x	Leupold	Sierra 168	40.5gr 4064	Fed.	Fed.
12. Larry Hanselman**	245-7x	222	EPI00			22gr. H322		
13. David Heimback**	241-3x	222	Rem. Hart	Leupold				
14. Gary Long	241-3x	308	Rem. Hart	Leupold	Sierra 168	41gr. 4064	Fed.	Fed.
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Central Pennsylvania Rifle Club Inc.
Dauphin, Pa. Aug. 6, 1978
IBS Registered Hunter Rifle Match

Name	Score	Scope	Rifle	Cal	Bullet	Powder	Primer	Case
Masters								
1. Loucks, J.L.* Red Lion, Pa.	247-5	Bshnl 6	Win	308	Sierra 168	4831 36	Rem	Win
2. Green, Guy* Hughesville, Pa.	245-11	Recar 6	Rem 722	308	Sierra 168	4064 38	Alcan	Norma
3. Linn, Robert A.* York, Pa.	245-6	Lyman 6	Rem 40X	308	Sierra 168	3031 39	CCI-BR	Fed
4. Parry, Russell C. Forksville, Pa.	244-8	Lyman 6	Rem	308	168	3031 39	R	Win
5. Thompson, Paul H. Dauphin, Pa.	243-7	Weaver 4-12	Rem	308	Sierra 168	4064 40	Fed	Govt
6. Lynn, Carl Williamsport, Pa.	242-6	Lyman 6	Rem 700	6x47	own 70	7 1/2 26	Rem	
7. Loucks, L. York, Pa.	241-10	Lepld 6	Rem	308	Sierra 168	4895 41	Rem	Win
8. Wagman, W.C. Dallastown, Pa.	238-8	Lepld 3-5-10	Rem	308	Sierra	76V 40.5	Rem	Fed
9. Lynn, Jeanne E. Williamsport, Pa.	238-1	Lyman 6	Rem 700	6PPC	own 70	748 29.5	200M	Sako
10. Johnson, V. L. Mechanicsburg, Pa.	187-3	Lepld 3-9	Sako	243	Nosler 70	4831 45	Fed 215	Rem

*—Awarded prize money
Warm-up match was a tie
L. Loucks 50-1
J. L. Loucks 50-1
We wish to thank all who attended our match.

C.D. McElwee, Reporter

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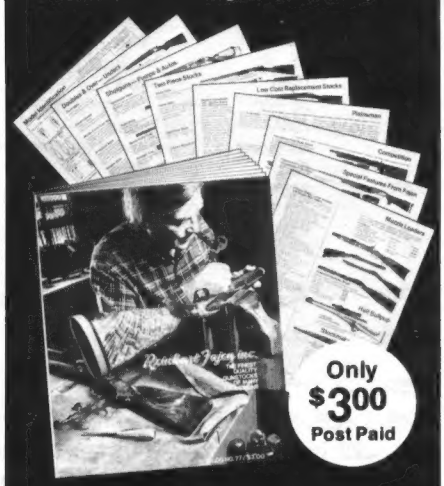

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